

Form PTO-1449

Docket Number 295002005901

Application Number 10/647,088

INFORMATION DISCLOSURE CITATION
IN AN APPLICATION

(Use several sheets if necessary)

Applicant

BOIME and BEN-MENAHM

Filing Date August 21, 2003

Group Art Unit 1645

Mailing Date: February 6, 2004

U.S. PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Name	Class	Subclass	Filing Date If Appropriate
LS	1.	08/1994	5,338,835	Boime	530	398	
LS	2.	01/1998	5,705,484	Thomason	214	2	
LS	3.	05/1995	5,420,247	Gearing et al.	530	350	

FOREIGN PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Country	Class	Subclass	Translation YES NO
LS	4.	12/1985	EP 0 163 406	Europe			
	5.	05/1998	EP 0 839 831	Europe			
	6.	05/1985	WO 01959	PCT			
	7.	09/1990	WO 90/09800	PCT			
	8.	11/1991	WO 91/16922	PCT			
	9.	12/1992	WO 92 22568	PCT			
	10.	08/1995	WO 95/22340	PCT			
	11.	02/1996	WO 96/05224	PCT			
	12.	05/1999	WO 99/25849	PCT			

OTHER DOCUMENTS

(including author, title, Date, Pertinent Pages, Etc.)

Examiner Initials	Ref. No.	Title
LS	13.	Bielinska, <i>J Cell Biol</i> (1990) 111:330a (Abstract 1844).
	14.	Boime et al., "Synthesis of Genetically Fused Single Chain Analog of Human Chorionic Gonadotropin: Implications for Drug Design and Structure-Function Relationships," <i>Proceeding of the Symposium: "The Ovary Regulation, Dysfunction and Treatment,"</i> 1106:25-27 (1996).
	15.	Campbell et al., "Conversion of Human Choriogonadotropin into a Folitropin by Protein Engineering", <i>Proc Natl Acad Sci</i> (1991) 88:760-764.
	16.	Chen and Okayama, "High-Efficiency Transformation of Mammalian Cells by Plasmid DNA", <i>Mol Cell Biol</i> (1987) 7:2745-2752.

EXAMINER: (examiner)

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LS	17.	Chen et al., "The Carboxy-Terminal Region of the Glycoprotein Hormone α -Subunit: Contributions to Receptor Binding and Signaling in Human Chorionic Gonadotropin" <i>Molec Endocrinol</i> (1992) 6:914-919.
	18.	Dayhoff et al., "A Model of Evolutionary Change in Proteins" <i>Atlas of Protein Sequences and Structure</i> (1972) 5:89-99.
	19.	Duijkers et al., "Follicular Fluid Hormone Concentrations After Ovarian Stimulation Using Gonadotropin Preparations with Different FSH/LH ratios. 1. Comparison of an FSH-Dominant and a Purified FSH Preparation," <i>International Journal of Fertility and Women's Medicine (USA)</i> 42(5):306-310 (1997) [abstract only].
	20.	Erickson et al., "Synthetic α -Subunit Peptides Stimulate Testosterone Production in Vitro by Rat Leydig Cells" <i>Endocrinology</i> (1990) 126:2555-2560.
	21.	Fares, "Design of a Long Acting Follitropin Agonist by Fusing the C-terminal Sequence of the Chorionic Gonadotropin β Subunit to the Follitropin" <i>Proc Natl Acad Sci USA</i> (1992) 89:4304-4308.
	22.	Kuettmann, "Receptor Binding Regions of hLH and hCG β -Subunit: Structural and Functional Properties" pgs. 103-117. [1993]
	23.	LaPolt, "Enhanced Stimulation of Follicle Maturation and Ovulatory Potential by Long Acting Follicle-Stimulating Hormone Agonists with Extended Carboxyl-Terminal Peptides", <i>Endocrinology</i> (1992) 131:2514-2520.
	24.	Lapthorn, "Crystal Structure of Human Chorionic Gonadotropin" <i>Nature</i> (1994) 369:455-461.
	25.	Lustbader et al., EDS, Springer Verlag (New York) (1994) 122-134.
	26.	Matzuk et al., "Effects of Preventing O-glycosylation on the Secretion of Human Chorionic Gonadotropin in Chinese Hamster Ovary Cells", <i>Proc Natl Acad Sci USA</i> (1987) 84:6354-6358.
	27.	Matzuk et al., "The Glycoprotein α -Subunit is Critical for Secretion and Stability of the Human Thyrotropin β -Subunit" <i>Mol Endocrinol</i> (1988) 2:95-100.
	28.	Matzuk and Boime, "The Role of the Asparagine-linked Oligosaccharides of the α Subunit in the Secretion and Assembly of Human Chorionic Gonadotropin" <i>J Cell Biol</i> (1988) 106:1049-1059.
	29.	Moyle et al., "Co-Evolution of Ligand-Receptor Pairs" <i>Nature</i> (1994) 368:251-255.
	30.	Patel, "A Clapsed Embrace" <i>Nature</i> 369:438-439. [1995]
	31.	Puett et al., "Delineation of Subunit and Receptor-Contact Sites in Site Directed Mutagenesis of hCG β -Glycoprotein Hormones." [incomplete citation]
✓	32.	Sachais et al., "Molecular Basis for the Species Selectivity of the Substance P Antagonist CP-96, 345" <i>Biol Chem</i> (1993) 268:2319.

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33.

Wu, H., "Structure of Human Chorionic Gonadotropin at 2.6 A Resolution from MAD analysis of the Selenomethionyl Protein" *Structure* (1994) 2:545-558.

34.

Xiao-Chi et al., "Expression of Human Luteinizing Hormone (LH) and Chorionic Gonadotropin from Human but not Equine, Rat and Ovine Species" *Endocrinol* (1991) 5:759-768.

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Yoo et al., "Conversion of Lysine 91 to Methionine or Glutamic Acid in Human Choriongonadotropin α Results in the Loss of cAMP Inducibility" *J Biol Chem* (1991) 266:17741-17743.

EXAMINER: /Lorraine Spector/

DATE CONSIDERED: 01/24/2007

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